

# FOLIO

UNIVERSITY OF ALBERTA  
12 FEBRUARY 1993



## INSIDE

- U of A printed materials big winner at major communications competition
- Globalization a hot topic of discussion

## Tuition going up, but Board promises to fight for student loan reform

*Task force should be set up to investigate the matter, suggests Finance Committee Chair*

Tuition fees are going up. "This raises the fee up to the maximum allowed under the Minister of Advanced Education's tuition fee policy," said Board Finance Committee Chair Bill Grace. "Students will be paying approximately 13.7 percent of the costs of their university education."

Addressing the Board's regular meeting last Friday in Calgary (see story below), Grace said the proposed instructional fee schedule means students will be paying an additional 13.1 percent. Students will have to come up with an additional \$236 for 1993-94. "We compare favourably to other universities across Canada."

"As a matter of fact, we are among the lowest in most Faculties across the country," he said, pointing out that the U of A is no where near the 20 percent ceiling set by the Ministerial policy.



Bill Grace

Grace said a small subcommittee of the Board will be reporting to the next meeting of the Finance Committee and then to the Board on the issue of the student loan program. A task force should be established which would include members from government, students and universities. Such a task force should have a fairly short reporting time frame, he suggested.

"We believe the government should do something about the student loan program. As we all know, the Smith Commission talked about an income contingent repayment plan [for student loans], the Students' Union has some proposals and the Senate is in the process of looking at the whole question of student loans."

"As we move towards that 20 percent ceiling, I can see in the not too distant future that ceiling being lifted," he predicted. "Therefore, to secure accessibility of education, we're going to have to provide better mechanisms for a loan program for students. How that should be done, we're not sure."

Student representative Winston Pei said he supported the increases, because "this Board has a willingness to effect changes and a strong awareness that those changes have to happen hand in hand with these fee increases."

Students' Union President Randy Boissonnault said he, too, was impressed with the progressive stand of the Board on the issue of the reform of the loans program. The Students' Union has a policy that tuition fees account for a maximum of 15 percent of the net revenues of the University. "This [increase] gets us dangerously close to that maximum ... and I have difficulty considering this

out of the context of extra fees. We have no idea what increases on the extra fees will be."

He said the University does not know what the government grant will be either. I'm concerned that if the government cuts the budget by two percent and we see that our tuition fees haven't increased enough, then extra fees may be increased to make up a shortfall, said Boissonnault, who voted against the increases.

It's true, \$236 is not a lot of money for a lot of students, but the U of A now has more mature students, single parents and students who fall into the unemployed bracket of people between the ages of 18 to 25, Boissonnault said.

Board member Mary O'Neill voted against the fee increase. The University needs to raise tuition fees, but an increase of 13.1 percent in one year is simply too much, she contended.

Another Governor, Tom Shields, said it's important that the University move towards

the 20 percent ceiling as quickly as possible. He worried, however, that the reform of the loans system would get bogged down in a jurisdictional wrangle between the federal and provincial governments. Is it possible to reform the system without federal government involvement? he asked.

Boissonnault responded that it would be possible to set up pilots in the province as is being done in Ontario, but it would be more difficult without the assistance of the federal government. "All we need for a total reform of the student loan system in the province and in the country is the political will," he said, pointing out that the Board's weight will be influential.

Graduate Students' Association President Steve Karp, who voted against the increase, said he was sympathetic to the financial plight of the University. He said a partnership between students and the government to support universities is necessary, but that partnership can only be assisted through the reform of the loan system.

## Board of Governors meets with Calgary's educational and business communities

*Spirit of cooperation evident as issues facing postsecondary system aired*

If universities in the province are going to survive and prosper during a time when resources are shrinking, they're going to have to meet challenging issues head-on and cooperate with one another to a greater extent, says Board of Governors Chair Stan Milner.

Addressing a luncheon last Friday attended by many in the City of Calgary's educational and business communities, Milner said that a meeting attended by members of the Boards of Governors of the University of Alberta and University of Calgary was a sign of good faith and increasing cooperation between the province's two major universities.

"There's really no competition [between the two universities], and there's no real room

for competition," Milner said. "And if we're going to achieve anything, we're going to have to turn out top quality graduates."

The 5 February meeting, held in conjunction with the U of A Board's outreach program, was followed by a luncheon at which invited guests could discuss some of the important issues facing the postsecondary education system. The night before, the two institutions' board members met over dinner.

William Kaufmann, a U of C Board member and general manager of Calgary's Chamber of Commerce, lauded both universities for their willingness to cooperate, and labelled the meeting historic. "This is a great initiative

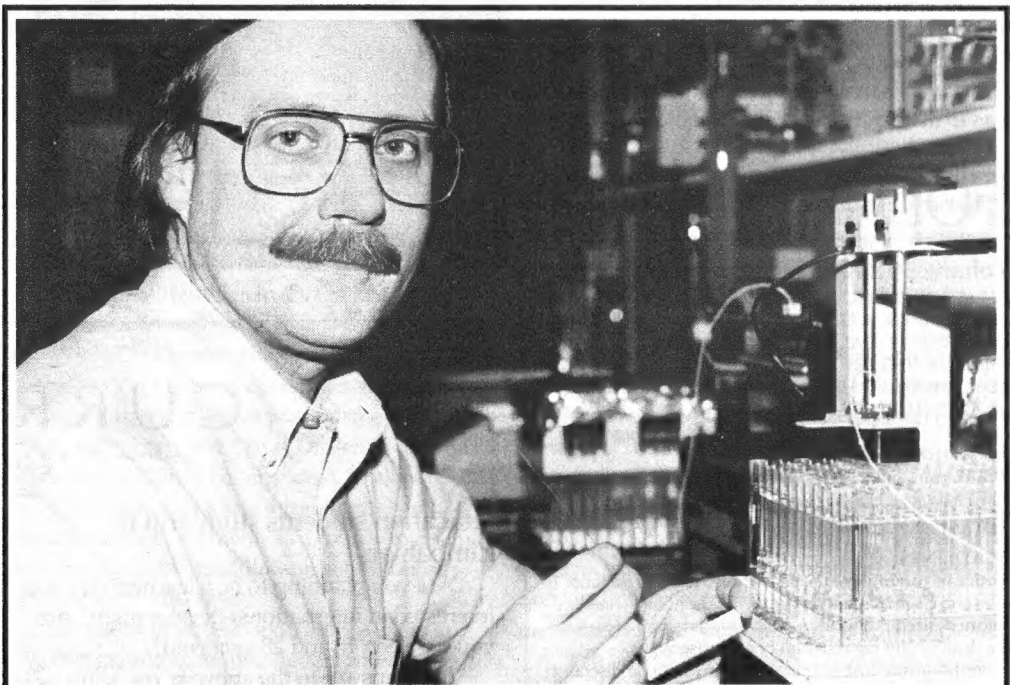
and opens the door to some of the things we must do," Kaufmann said.

U of A Chancellor Sandy Mactaggart agreed. "This is a rather historic and important occasion. The future of the whole province depends on how well we educate our young people." The Boards of Governors have to get much more support from the community, said Mactaggart, something that universities simply didn't have to do when they had lots of money from government.

Many of the same issues the Board has heard in other communities were also raised in Calgary. Why are you here? Is tenure necessary? Why are some courses not transferable between the two universities? Should

tuition fees go up? Why does the U of A receive higher per capita grants than the U of C?

On the last question, President Paul Davenport responded by pointing out that the U of A has more professional programs, and they're more expensive to operate. "Various reports have found that the grants appear to be roughly equitable," he said. On the issue of transferability, the President said we don't deny the system sometimes changes abruptly. It's a big issue for the U of C and U of A, and both institutions are working to iron out the rough spots. Nevertheless, it's important to remember that people outside the province who are knowledgeable about other systems say Alberta has the best transfer system in the country.



Ole Hindsgaul, erstwhile entrepreneur, is glad he chose chemistry over industrial contracting. The recipient of a 1993 Steacie Fellowship is profiled on page 3.

Continued on page 2

# U of A communications vehicles 'ticketed' for excellence

**CASE gold awards for student recruitment materials, SPECTRUM; silver award for Reunion Weekend**

The Office of the Registrar, the Office of Public Affairs, and the Office of Alumni Affairs have each won awards in the 1993 CASE (Council for the Advancement and Support of Education) District VIII Communications Awards program.

In the category Recruitment Publications, the poster titled University of Alberta - Fertile Ground and the accompanying recruitment publication called *The Preview* earned gold awards for the Registrar's Office. In addition, the office won a bronze award in the Publication Design category for its package of "Fertile Ground" and *The Preview*. (The latter is a combination of the 30-page Admission Requirement Brochure and the eight-page glossy, *Prospectus*.)

The team of Assistant Registrar BJ Purves, Raymond Au, graphic designer in Technical Services, and local artist Leslieanna Blackner created the poster and the publication, both of which have been sent to high schools nationwide.

Public Affairs' entry, *SPECTRUM*, won a gold award in the Newsletter Publishing category.

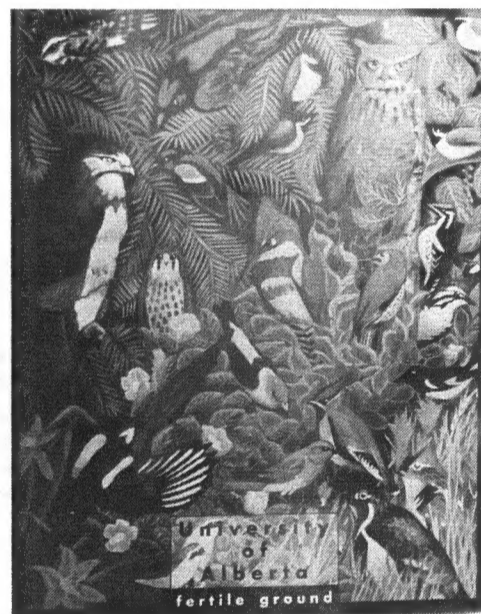
*SPECTRUM*'s purpose is to let people within the University know about the research projects of their colleagues and individuals in other departments. It draws on the talents of editor Anne Le Rougetel (Public Affairs), freelance writer Connie Bryson, designer Debra Bachman (Public Affairs) and photographer Dick Woolner (Photo Services). *SPECTRUM* is sponsored by the Office of the Vice-President (Research) and is published twice a year.

Alumni Affairs' silver award was for Reunion Weekend '92 and came in the Alumni Projects category.

The objective in preparing the materials was to distribute easily identifiable and consistent as well as attractive-looking brochures, event tickets, advertisements, campus maps and name badges. The musical motif ("Classic Green and Gold") was expertly developed by Elke Christianson, Manager, Programs and Services, designer Debra Bachman and the Special Events Committee of the Alumni Association: Some 600 people registered for the opening event (the Glenn Yarbrough concert), more than double the attendance at previous years' opening events. The Gala Dinner (the key to Reunion Weekend's success) was attended by 425 alumni, family and friends, an increase of 20.7 percent over last year.

In extending congratulations to all concerned, CASE Awards Chair Terry Maurer said, "Your award is not only an indication of the talent and skill of those who produced the material, but exemplifies the accomplishments of your institution as well."

The awards will be presented at the CASE District VIII Conference 22 February in Portland, Oregon. District VIII consists of Alaska, Alberta, British Columbia, Idaho, Manitoba, Montana, Oregon, Saskatchewan and Washington.



## Board meeting continued from page 1

Responding to a question about tuition fees, the President said, "We'd like to see the government get out of the tuition business and allow our boards to set the fees. Groups like this can certainly help us, if you can just get the word out that the government doesn't need to be involved in setting tuition rates. Our boards can do it very well."

Responding to a question about whether tenure hinders the efficient delivery of education, Milner said he'd like to see two hiring methods on campus, one on a contract basis and another based on tenure. "I think we should pay better salaries under contract and try and pick up more stars," he said, acknowledging that the issue of tenure is very misunderstood in the business community.

U of C Chancellor David Smith said the whole issue of tenure is a difficult one and is being examined at the U of C.

Richard Haskayne, Chair of the U of C's Board of Governors, said universities are far more complex than he first realized. Many of the questions raised have been good ones, he said, but the answers are just not so simple. "The people in the institutions are doing a far better job than I had ever realized, controlling costs and trying to respond to the many constituencies they serve."

Chancellor Smith said universities are operating under an Act that is severely outdated. *The Universities Act* places severe constraints on universities and it should be amended, he said. For example, boards are obliged to submit to binding arbitration if they can't reach collective agreements with support staff and faculty, regardless of other considerations. And if universities want to establish or drop programs, they must get Advanced Education's approval.

"We have to have more freedom to design and control things if we're going to meet the difficult circumstances under which we're all operating," Smith told the gathering.

At the Board meeting earlier in the day, President Davenport said he sensed a strong will among the two institutions to cooperate on issues. That cooperation involves personal friendships, but also includes a real willingness among deans, chairs, faculties and students to work together.

Milner said, "We have been lobbying this Minister and the past Minister for an open conference on universities, much like the recent economic conference. We need to get the people who provide the services together with the people who use the services to come up with a common understanding."

## BOARD OF GOVERNORS BRIEFS

### Onward with Oncology Department

The Board of Governors, at its regular meeting 5 February, approved the establishment of a Department of Oncology in the Faculty of Medicine.

Many of the current and future staff will continue to hold their primary University appointments within the department, while others will continue to hold their primary appointments in their current departments and hold secondary appointments in the Department of Oncology.

The proposal was approved recently by General Faculties Council.

It's expected the consolidation of existing and future clinical and basic science staff into an effective "critical mass" will help to recruit bright graduate students and academically oriented basic and clinical scientists to the oncology staff and attract undergraduate students who may be interested in careers in the field of oncology.

### Rasmussen to chair Organizational Analysis

The Board received notice of the appointment of Ray Rasmussen as Chair of the Department of Organizational Analysis in the Faculty of Business for a five-year term, effective 1 July.

### Approval process amended slightly

The Board agreed to delegate to its Academic Affairs and Human Resources Committee authority to approve editorial and nonsubstantive changes to the Code of Student Behaviour.

### Library and Computing Fee rolled into tuition

The Board approved a proposal to integrate the Library and Computing Services Fee with tuition fees. The integration will be done on a revenue-neutral basis.

### Money allocated for Eastpoint

The Board approved a capital expenditure of \$4.8 million to undertake renovations to the Eastpoint auxiliary library stack. The facility will be used by the Library to store materials that are seldom used. The new facility will also relieve some of the storage pressures on campus.

## FOLIO

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Public Affairs produces *Folio* on a regular basis for the staff and other interested persons.

#### DEADLINES:

**Notice of coming events:** 9 am three weeks in advance of event. **Classified advertisements:** 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements.

Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

**Display advertisements:** 3 pm Thursday, eight days before desired publication date. Camera ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be reprinted with acknowledgment.

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## CURRENTS

### Education students study trip to Zimbabwe

Are you planning to be a teacher? Are you interested in international development? Are you between 18 and 28 years old?

If the answer to the above is yes, join a group of eight students on a study trip for eight weeks to Zimbabwe. There you will: experience working in rural villages, with women, farmers, educators and students; learn about literacy and its relevance in a developing country; work and study with local education students.

The study trip is funded by the Canadian International Development Agency (CIDA) and is sponsored by the Centre for International Education and Development, U of A Faculty of Education.

For further information, contact Mrs Betsate Melaku, Department of Educational Foundations, at 492-7229. Application deadline: 28 February.

### YWCA invites nominations for Tribute to Women Awards

Nominations are invited for the 1993 YWCA Tribute to Women Awards. The nomination categories are: Arts and Culture; Athletics, Recreation and Fitness; Business, Management and the Professions; Community Service; Health, Science and Technology; Public Affairs and Communication; and Social Science and Social Services. Nomination forms are available from the "Y" (423-9922).

The nomination deadline is 5 March; the Tribute to Women Dinner will be held 12 May at the Westin Hotel.

### Wanted: former Girl Guides to contribute to research

To aid her MA research, Catrin Thomas would like to hear from women of any age who belonged to the Girl Guides of Canada as a teenager. She is interested in meeting with such individuals for approximately 90 minutes per person to discuss the influences that certain Guiding experiences have had on their lives. Thomas can be reached at 438-6851.



University  
of  
Alberta

# Chemistry, not business dealings, Ole Hindsgaul's forte

*Has Steacie Fellowship to prove it*

After Ole Hindsgaul completed his BSc at McGill University in 1973, he went into business with a friend. The two young men would spend the hot and humid Montreal summers, from 7 am to midnight, on the lawns of Mount Royal and Westmount neighbourhoods installing irrigation/sprinkler systems. Come freezeup, Ole would be off to Spain to catch a few rays.

But the two young entrepreneurs bit off more than they could chew. They bid on a large industrial contract and then found out that the site was on an old locomotive factory. Under the surface was a mass of concrete and metal wires and that made digging trenches exceptionally difficult—and expensive.

"We were naive and young and lost our shirts," explains Dr Hindsgaul, the Chemistry Department's most recent recipient of a prestigious Steacie Fellowship from the Natural Sciences and Engineering Research Council. (Early last year, Dr Hindsgaul's colleague, Norm Dovichi, achieved a historic double by becoming the first U of A scientist to receive both a Steacie Fellowship and the Steacie Prize in the same year.) "I had to work in an oil refinery as a labourer for six months to pay debts," he recalls.

Dr Hindsgaul beat a hasty retreat from the entrepreneurial world, polished off his chemistry degree and applied to graduate schools across the country. He was accepted at a number of them and chose Alberta. He arrived in 1975 and began to earn his PhD under the tutelage of Ray Lemieux.

The timing was superb; Dr Lemieux, the country's top carbohydrate chemist, was do-

ing his best work. His lab was staffed with nine or 10 postdoctoral students, recalls Dr Hindsgaul. And as the only PhD student at the time, Dr Hindsgaul recalls feeling somewhat intimidated in that environment.

**"...we want to prove whether or not certain carbohydrates on tumours actually contribute to the cancer or cause it. I think we'll be able to do that in a couple of cases within two years."**

*Ole Hindsgaul*

Eighteen years later, Dr Hindsgaul has received a Steacie Fellowship, awarded to rising international stars in science and engineering. The award of salary plus benefits will afford him the opportunity to focus on research fulltime, free from teaching and administrative duties for up to two years. That means his research program will accelerate.

"Basically, the objective is to help people in cell biology," says the synthetic carbohydrate chemist. "It is very well known that cells differentiate—especially in cancers and in developing embryos—and are subject to change all the time. Very often it's the sugars, which are carbohydrates, on the cell surfaces that change.

"For years, we've known this, but nobody knows why they're changing, and one of the reasons people couldn't ask the proper questions is because we didn't have carbohydrate molecules ... but thanks to our experiences in

Dr Lemieux's lab, we can now make them. So now that we can make these molecules that are changing, we can then start to ask questions about why they're changing. Are they contributing to cancer? Are they important or not? That's what we're trying to figure out."

Dr Hindsgaul and a group of 10 other synthetic chemists who work with him are not working in isolation. Monica Palcic, an enzymologist in the Department of Chemistry, is studying the enzymes that actually make these strange molecules. Two strategic NSERC grants have supported their collaborative work. "It's been a particularly fruitful collaboration ... and one that spans the dining room table," says Dr Hindsgaul. Drs Hindsgaul and Palcic met as graduate students at the U of A, were married in 1985 and held postdoctoral positions together at Berkeley in California.

He says frankly that if it weren't for the Alberta Heritage Foundation for Medical Research and its generous initial support of their work, it's likely neither one of them would have likely stayed at the U of A. "AHFMR is a real success story."

He has set some goals. "They're very simple. First, we want to prove whether or not certain carbohydrates on tumours actually contribute to the cancer or cause it. I think we'll be able to do that in a couple of cases within two years," he says, pointing out that that work is funded by MRC. (Very few people in Faculties of Science are awarded MRC grants.)

"If we prove this is happening, then the objective will be to prevent the biosynthesis of the carbohydrates. That's why we've been studying these enzymes. It's a cause and effect: the cell gets a new carbohydrate and our theory is that that lets it travel and dig in elsewhere. If we could prevent these from being made, it would stay as a solid tumour, and then a surgeon could simply cut it out," he says, pointing out that it's possible it could lead to a whole new class of drugs.

Drug companies, such as Monsanto, Ciba-Geigy, Glycomed and AMGEN, are kicking in some money too. "They want to know if there's more than just smoke out there. Their support encourages me to think that we're not way off track." Furthermore, it allows Dr Hindsgaul to send his colleagues to conferences. "They learn things, they come back rejuvenated and they work harder," he says, adding that he normally takes 10 trips a year—a travel schedule he finds hectic and exhausting.

People criticize him for having few outside interests. "The only thing I really like to do is ski—fast and totally out of control—because it relaxes me. When you ski fast, go over a small hill, and then right at that instant when you have no idea what's there, your mind is completely emptied of all chemistry."

Dr Hindsgaul, who, when he was at McGill doing his undergraduate degree, thought chemistry was boring, says, "I absolutely love it now. And that's because I'm calling the shots."

## New board chairman, executive director for Petroleum Institute

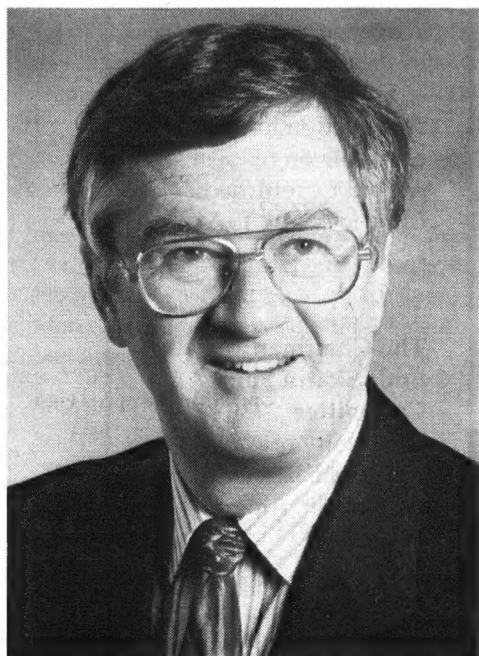
George Putnam and Peter Adams have recently been appointed board chairman and executive director, respectively, of the Canadian Institute for Petroleum Industry Development (CIPID).

Putnam, who has had a 30-year career in petroleum marketing, exploration and production, will be presiding over a 14-member board of directors representing the private sector, the Government of Alberta, the Government of Canada, the Universities of Alberta and Calgary, and the Alberta Colleges and Technical Institutes Consortium. He is currently vice-president for Canadian Opera-

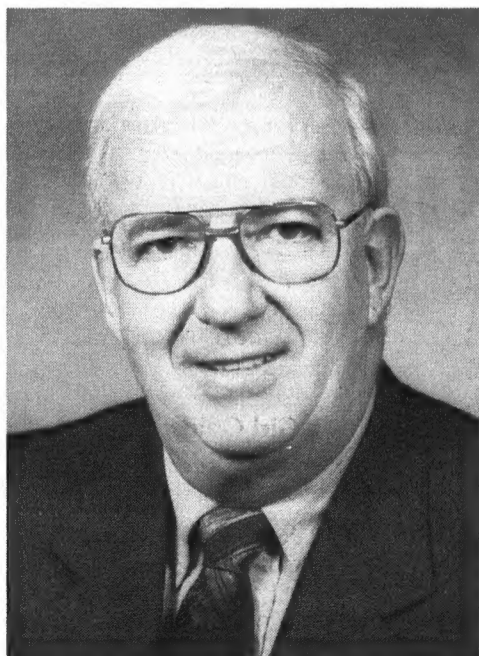
tions, Oil and Gas, of the Calgary-based Canadian Occidental Petroleum Ltd.

Prior to his appointment as executive director of CIPID, Dr Adams served as president of the Technical University of Nova Scotia. He is very familiar with the University of Alberta, having been Dean of the Faculty of Engineering from 1974 to 1984, as well as the founding president of the University-based Centre for Frontier Engineering Research (1984 to 1989), one of Alberta's major oil research facilities.

Since its inception in 1983, CIPID has accommodated more than 450 participants from more than 50 countries.



Peter Adams



George Putnam

## Economists spar over the issue of globalization

*Spirited—sometimes testy—debate opens conference*

No one could have accused debate participants Michael Percy (Economics) and University of Ottawa political scientist Duncan Cameron of stating their views in overly diplomatic language last week when they debated the merits of "globalization" at the Canadian Identities in an Era of Globalization conference.

While Dr Cameron argued that globalization has been disastrous, Dr Percy preferred to see its more positive aspects. There have been costs, said Dr Percy, but the alternatives would be far worse. "I view regional economic trading agreements, such as the free trade agreement, as a means to an end to getting a better multilateral set of trading relationships and rules.

"If you sit back and ask 'How are we going to promote economic development?' it's going to be through foreign aid, increased immigration or trade," he argued. "Most citizens would prefer to promote global economic development through trade ... and immigration is politically unpopular."

Dr Percy said nongovernment organizations are emerging in the climate of economic globalization and they're playing more important roles than they have historically. The increased strength of international institutions, such as the UN, IMF and World Bank, combined with the emergence of low cost delivery of information, has allowed us to buffer the economy to a much greater extent than we have in the past, he said, pointing to the 1930s as an example of what can happen in the absence of strong international organi-

zations. "Globalization really means the integration of capital markets and labour markets.

"Those types of mechanisms which lead to greater flows of capital and labour between countries and regions can only enhance global understanding and lead to a sorting out of differences through ballot boxes rather than bullets."

"We're now in a new cold war, where transnational corporations and governments would have us believe that international competition is the be-all and end-all," said Dr Cameron. "The demise of the old cold war probably means that the corporations and the people who own them feel they don't have to be as nice anymore. The ideological competition, and the existence of another development model, isn't there anymore.

"We have a deflationary crisis worldwide. We're seeing falling commodity prices. Deflation means that when you've got high interest rates and heavy debt loads, companies start to fail and you have bankruptcies."

The University of Ottawa professor, who earned his undergraduate degree at the U of A, said the pervasive ideology to be tougher, meaner and leaner is simply unexamined. "You try to compete with lower costs by eliminating trade unions, and moving to the lower cost areas and areas where environmental restrictions are few. It's the end of internationalism, as we know it in Canada."

The two-day conference was sponsored by the Canadian Studies Program and The Centre for Constitutional Studies.

# U of A helps speed development of new way of processing biomedical waste

A new process perfected at the University of Alberta promises to solve a critical environmental challenge. It is a process capable of fully recycling the biohazardous waste produced in hospitals, veterinary clinics, airports, and so on—material like disposable instruments, used gloves, needles, bandages, food-contaminated plastics, or all the waste taken from airplanes. Such waste is currently disposed of through landfills or incineration, both of which carry pollution hazards.

Raymond Marusyk, Professor of Virology in the Faculty of Medicine and Associate Director of the Provincial Laboratory of Public Health for Northern Alberta, was asked by Envirotrust Technologies Inc of Toronto to work on a project concerned with processing

biomedical waste. Contributions by Dr Marusyk and his research staff led to the development of the Genelytic Treatment Process (patent pending), which converts the waste into an entirely non-toxic and commercially valuable material.

The treatment occurs in a closed system—no pre-sorting is required. Paper, plastic, glass, metal, fabric, and body waste are all dumped together into sealed vessels. Inside, the waste is shredded and treated through a combination of high pressure, high temperature, and a non-isotonic atmosphere that breaks down the molecular structure of the infectious organisms present in the waste. Nothing is added to the system except salt and steam, and there are no toxic emissions or by-products.

The result is a totally harmless and entirely usable substance. The liquid in the converted waste is spun out and can be used as the base for a liquid fertilizer. The solid residue is further dehydrated, leaving a granular material that can be made into building materials such as bricks, fence posts and roofing tiles.

The treatment units come in three sizes, allowing on-site or centralized processing and eliminating any need to transport infectious waste over long distances. At half the cost of incineration, the system entirely eliminates disease-causing organisms, including heat-resistant bacteria and the types of microorganisms associated with polio, hepatitis, tuberculosis, measles, and HIV-infection.

"This system completely eliminates the need for landfill or incineration," Dr Marusyk says. "No toxic gases are emitted from it, and everything that comes out is usable."

His summary of the benefit is succinct. "You can't get any better than absolutely sterile and absolutely recyclable."

## New process could eliminate acid rain

Acid rain could become a thing of the past, thanks in part to research done at the University of Alberta. A new process offers a way to eliminate the pollutant and leave in its place a commercially viable nitrogen fertilizer.

The research began with Michael Worsley of Edmonton, an independent chemical consultant (formerly with the Alberta Research Council) who set out to find a productive use for the sulphur dioxide ( $\text{SO}_2$ ) found in smoke-stack emissions.  $\text{SO}_2$  emissions are commonly associated with smelters, coal-fired power plants, gas processing plants, and so on. At present, the emissions release  $\text{SO}_2$  into the atmosphere, where they can turn into sulphuric acid and fall as acid rain, or can fall directly as  $\text{SO}_2$  and form high-sulphur concentrations in soil, water, and vegetation.

Dr Worsley developed a process by which  $\text{SO}_2$ , ammonia, and urea react to form a mix-

ture of guanidine ammonium sulphate and ammonium sulphate. Ammonium sulphate by itself is a commonly-used fertilizer, but until now guanidine ammonium sulphate has been extremely expensive to manufacture. The new compound is high in nitrogen and sulphur, both of which are essential nutrients for plants.

The next step in the research involved Marvin Nyborg, a soil scientist with the University of Alberta, whose role was to find applications for the compound. He determined that it serves as a nitrogen fertilizer—and an effective one. In comparisons with other common nitrogen fertilizers, the new compound consistently proved to be at least as effective—or more so—at supplying nitrogen for crops. Moreover, the cost appears to be comparable to that of common commercial

fertilizers. An additional benefit is that, unlike most fertilizers, the new compound has a slow-release property that means the nitrogen is released gradually for the crop's use rather than all at once.

There should be a large potential market for this conversion process and the resulting compound. Sulphur is released into the air in much of the world, and nitrogen fertilizers are the most-needed, worldwide.

The process is capable of handling all of the  $\text{SO}_2$  presently emitted from tall smokestacks. Dr Nyborg says, "The acid rain problem would be largely eliminated if industry started using this process." In fact, Union Carbide has picked up the rights and is testing the process and the new fertilizer compound.

*These stories were written for Research Report, an occasional publication of the Office of Public Affairs.*



University  
of  
Alberta

## Emil Skarin Fund

### Invitation to apply

Applications are invited to the Emil Skarin Fund Committee of the University Senate for financial support of a 1993 project or projects. Approximately \$6,500 from the Fund will be available.

Projects must be of value both to the public as well as the University of Alberta; be consistent with the general aims and purposes of this University, but not normally funded by it; and originate within the Province of Alberta.

Preference will be given to projects with an emphasis on the humanities and the arts. Proposals should include objectives, schedule, budget, and procedures for organization and evaluation.

Application forms are available on request, and should be returned, completed, by 15 March 1993.

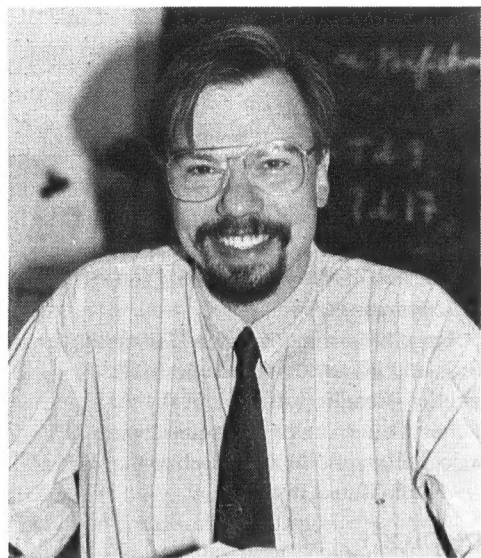
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Engineering and Business students taking Laird Wilson's course on Safety and Risk Management press on to the dragline at Syncrude's tar sands operation north of Fort McMurray. Sixty-five students went on the site visit late last month. It's part and parcel of "a comprehensive study of the theories and practices of providing a low risk working environment in all types of major industries, with particular emphasis on risk analysis/management solutions." Syncrude is a key backer of the program.

## Killam Annual Professor John Vederas 'a citizen/statesman of the scientific community'



John Vederas

"I thought John Vederas was a great instructor who took the time to make this difficult course interesting," Student.

"Dr Vederas is an excellent professor. I feel very lucky to have had a professor who cares about how well his students perform, and who is so committed to teaching the class in a fun, energetic and enthusiastic manner." Student.

"Dr Vederas is the pinnacle of teaching excellence," Student.

And so it goes. Students who have taken the Chemistry Professor's courses over the years have praised Dr Vederas highly. Says Chemistry Department Chair Ron Kratochvil, "John is one of the best lecturers and all-round teachers that we have in the department."

Dr Vederas, who has been awarded a Killam Annual Professorship for 1992, also commands respect from his peers in the international chemistry community. In the words of TH Chan, Dean of Science at McGill Uni-

versity, he is "an excellent scientist of international reputation.

"You have in John Vederas an outstanding individual who is respected nationally and internationally both as a scientist and as a citizen/statesman of the scientific community," Dr Chan wrote in support of Dr Vederas's application for a Killam Annual Professorship.

Many in the scientific community say that without question Dr Vederas is one of the very best young chemists in Canada today, and, in particular, has earned an international reputation for his work in the area of natural products chemistry.

"Our research in bio-organic chemistry aims at understanding the mechanisms and sequence of steps by which nature assembles biological molecules," Dr Vederas explains. "Long-term practical goals include control of biochemical processes and design of new molecules useful in medicine, agriculture, and food technology." That work has consistently been supported by major granting agencies.

Graduate students—understandably—want to work with Dr Vederas. For example, he now has nine graduate students in his group. "I have been an examiner on an average of five candidacy or thesis examinations each year," he says.

"However, I believe that the success of graduate teaching is best seen from research results and long-term success of graduate students. Only one graduate student has ever resigned from my group." Since 1986, three of the 13 graduate students he has supervised have earned Andrew Stewart Prizes for the excellence of their work. All of those students have gone on to work at universities, companies or research institutes.

In addition to refereeing research proposals and papers, Dr Vederas regularly serves on grant selection and review panels and contributes to the activities of a number of professional chemical societies.

The University of Alberta Alumni Association invites

## Distinguished Alumni Awards Nominations

University of Alberta alumni have brought honour to themselves and their alma mater through their leadership and accomplishments in professions and in society. To celebrate the truly great achievements of University of Alberta graduates, in 1992 the Alumni Association introduced the Distinguished Alumni Awards.

A maximum of three awards are presented each year to recognize *exceptional contributions to a profession and/or outstanding contributions and service to the University of Alberta, society or the welfare of others*. Nominees must be living graduates of the University of Alberta. Present employees of the University, current members of the University Senate or Board of Governors, and Alumni Council members are not eligible for nomination.

The 1993 awards will be presented at Reunion Weekend 1993 (2 October). Deadline for nominations is 31 March. Nominations must be made in writing; there is no restriction on who may make a nomination. For nomination forms or further information, contact the Office of Alumni Affairs, 430 Athabasca Hall. Telephone: 492-3224.

## Employee Assistance Program Update

*F*olio of 20 November 1992 carried an article about the University of Alberta's Employee Assistance Program and the program's services related to drug and alcohol abuse. It has since been determined that there are a number of locations around the University where meetings are held through Alcoholics Anonymous. These locations are as follows: University of Alberta Hospital, Room 1-G 159 Ambulatory Care, Monday nights at 8; Aberhart Hospital, 3rd Floor, 11402 University Avenue, Mondays nights at 7:30; Presbyterian Church basement, 8116 105 Street, Thursday nights at 8; Workers' Compensation Board Rehabilitation Centre, 7123 119 Street, 2nd Floor through the west door, Thursday nights at 7:30; and McKernan Christian Church, 11304 78 Avenue, Monday nights at 8.

The number to call for further information regarding group meetings held with Alcoholics Anonymous, is 424-5900.

## Professional Development Days

Both Grant MacEwan Community College and Alberta Vocational College Edmonton have openings for U of A faculty at their respective Professional Development Days. Grant MacEwan can accommodate five people (16 and 17 February, Jasper Avenue and 107 Street), and AVCE two (25 and 26 February, ACT Centre, 2909 113 Avenue).

Programs details can be obtained from Bente Roed, Education Director, University Teaching Services, 492-2826. Grant MacEwan's registration is being handled by Karen Carlson, 441-4872; Donna Zonneveld, 422-0663, is looking after AVCE's registration.

## EVENTS

### EXHIBITIONS

#### CLOTHING AND TEXTILES COLLECTION

Until 18 June

"Changing Suit: The Evolution of Men's Business Wear 1955-85"—an exhibition of men's wear from the collection. Hours: Monday to Friday, 8:30 am to 5 pm. Basement, Home Economics Building.

#### FAB GALLERY

Until 21 February

"MDF Deco"—an exhibition of experimental furniture design from the Industrial Design Program. Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Monday and Saturday, closed. 1-1 Fine Arts Building.

#### MCMULLEN GALLERY

Until 3 March

"The Dolls of Japan—Shapes of Prayer, Embodiments of Love." Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm (subject to availability of volunteers). Information: 492-8428, 492-4211. Walter C Mackenzie Health Sciences Centre.

### FILMS

#### GERMANIC LANGUAGES

23 February, 7:15 pm

*Vor Sonnenaufgang* (1976), German with English subtitles. 141 Arts Building.

### MUSIC

#### DEPARTMENT OF MUSIC

12 February, 8 pm

Visiting Artist Recital—Antonin Kubalek, piano. Convocation Hall.

13 February, 10 am

Piano Masterclass—Antonin Kubalek. Convocation Hall.

21 February, 2 pm

Faculty Recital—Helmut Brauss, pianist, with the Edmonton Symphony Orchestra. Jubilee Auditorium.

#### EDMONTON YOUTH ORCHESTRA

14 February, 3 pm

Senior Orchestra. \$5/adults, \$3/seniors and students. Convocation Hall.

21 February, 3 pm

Intermediate Orchestra. \$5/adults, \$3/seniors and students. Convocation Hall.

### SPORTS

#### BASKETBALL

12 and 13 February, 6:30 pm

Pandas vs Calgary

12 and 13 February, 8:15 pm

Bears vs Calgary

#### HOCKEY

19 and 20 February, 7:30 pm

Bears vs Lethbridge

#### TRACK AND FIELD

13 and 14 February

Senior Provincial Championship

#### VOLLEYBALL

19 and 20 February, 6:15 pm

Pandas vs Victoria

19 and 20 February, 8 pm

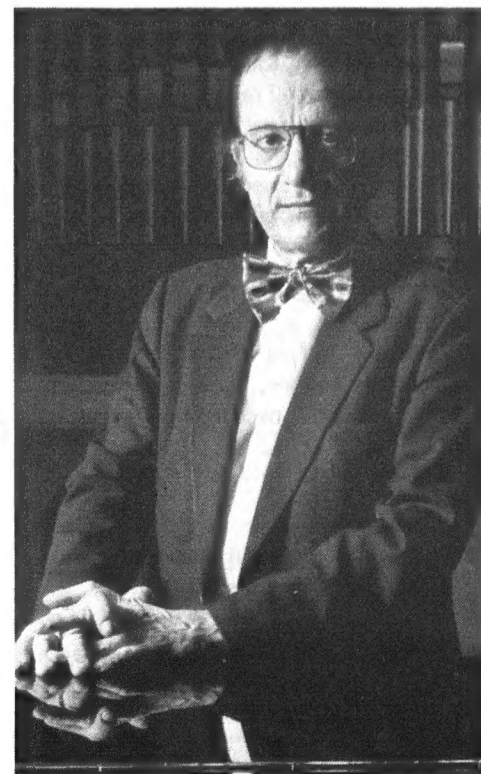
Bears vs Victoria

### THEATRE

#### STUDIO THEATRE

Until 20 February

"The Miser" by Molière. Information and tickets: 492-2495. Myer Horowitz Theatre.



Helmut Brauss

## ACCOUNTING AND MANAGEMENT INFORMATION SYSTEMS

12 February, 2 pm

Eric Wang, University of Rochester, "Electronic Data Interchange: Competitive Externalities and Strategic Implementation Policies." B-05 Business Building.

19 February, 2 pm

Victoria Mitchell, Florida State University, "An Exploration of the Relationship Between Business Process Redesign and Information Technology Infrastructures." B-05 Business Building.

## ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

18 February, 4 pm

Gerald Weeks, Department of Microbiology, University of British Columbia, "Characterization of the Ras Genes of Dictyostelium Discoideum." Presented by Genetics. G-116 Biological Sciences Centre.

## ALPHA (EDMONTON) CHAPTER OF DELTA KAPPA GAMMA SOCIETY INTERNATIONAL (WOMEN EDUCATORS)

18 February, 7:30 pm

Diane Spillet, BScN Nurse/Consultant, "Caring for the Self: A New Perspective." Admission: \$2. Reservations: 434-9275 or 466-8583. Barnett House, 11010 142 Street.

## ANATOMY AND CELL BIOLOGY

16 February, 4 pm

Bruce Cohen, research fellow, Division of Biology, California Institute of Technology, Pasadena, California, "Novel Functional Domains of Neuronal Nicotinic Receptors." 5-10 Medical Sciences Building.

23 February, 4 pm

Clint L Makino, postdoctoral fellow, Department of Neurobiology, Stanford University School of Medicine, "Molecular Mechanisms of Visual Transduction." 5-10 Medical Sciences Building.

## ANTHROPOLOGY

12 February, 3 pm

Xia Quan, Department of Biology, Lanzhou University, PRC, "Tibetan Medicine." Cosponsors: Anthropology and the Centre for the Cross-Cultural Study of Health and Healing. 14-6 Tory Building.

19 February, 3 pm

Helga Vierich, "Land-use Mapping in Africa." 3-36 Tory Building.

## ART AND DESIGN

13 February, 3:30 pm

Dietmar Winkler, Kansas City Art Institute, "Graphic Design Practice." 2-20 Fine Arts Building.

17 February, 5 pm

Bill Laing, Department of Art, University of Calgary, will speak on his work in printmaking. 2-20 Fine Arts Building.

## ASSOCIATION OF EMERITUS PROFESSORS: UA

25 February, 7:30 pm

Gerald McCaughey, "Is Shakespeare Relevant?" Emeritus Centre, 11034 89 Avenue.

## BOTANY

18 February, 3:30 pm

Phil Lee, Alberta Environmental Centre, Vegreville, "Gap Dynamics on Atlantic Coastal Barrier Islands." M-149 Biological Sciences Centre.

## CAMPUS MINISTRY

16 February, 7:30 pm

Father Stephen Lacroix, CSB, "Understanding Catholicism—Conversion/Reconciliation." Newman Centre, St Joseph's College.

## CANADIAN FEDERATION OF UNIVERSITY WOMEN

22 February, 7:30 pm

Colleen MacDougall, "How Being a Professional Influences Our Lives as Women." All women university graduates are welcome. Information: 435-1277. Faculty Club.

## CANADIAN INSTITUTE OF UKRAINIAN STUDIES

16 February, 7:30 pm

Ioan Reboşapcă, professor, Slavic Languages and Literatures, University of Bucharest, "Ukrainians in Romania" (in Ukrainian). Heritage Lounge, Athabasca Hall.

## CUSO

23 February, 7:30 pm

Greg Brandenburg, Global Education Coordinator with CFF, "Our Consumption and Global Development." Room 133, Concordia College, Highlands Campus, 7128 Ada Boulevard.

## CENTRE FOR CONSTITUTIONAL STUDIES

16 February, noon

Lorraine Weinrib, Faculty of Law, University of Toronto, "The Structure of Charter Rights." 4th Floor Faculty Lounge, Law Centre.

17 February, 8 pm

Lorraine Weinrib, "Charter Metaphor: The Living Tree and Practical Living Facts." 231 Law Centre.

18 February, noon

Lorraine Weinrib, "A Hypertext Data Bank of SCC Cases." 4th Floor Faculty Lounge, Law Centre.

## CHEMICAL ENGINEERING

18 February, 3:30 pm

MGR Stevenson, "Intelligent Conceptual Design of Chemical Processes." 342 Chemical-Mineral Engineering Building.

## DENTISTRY

24 February, 6:30 pm

Kathy Hilborn, "Back Health for the Dental Professional." Light supper. Fee. Information and registration: Debbie Grant, 492-5023. 4069 Dentistry-Pharmacy Centre.

## ENGLISH

16 February, 4 pm

David Solway, Canadian poet, education critic, travel writer, and essayist, will read and discuss his work. L-3 Humanities Centre.

17 February, 3 pm

Lorne Macdonald, University of Calgary, "Child Abuse as Romantic Reality: The Case of Byron." L-3 Humanities Centre.

## ENTOMOLOGY

18 February, 4 pm

Lorraine Braun, "Malameba Locustae: An Amoebic Pathogen of the Migratory Grasshopper, *Melanopus sanguinipes* (Orthoptera: Acrididae)...Yes, Grasshoppers Do Get Gout." TB-W1 Tory Breezeway.

25 February, 4 pm

Ed Fuller, "A Generic Reclassification of the Tribes Elaterini and Pomachiliini (Coleoptera: Elateridae)." TB-W1 Tory Breezeway.

# TALKS



## GENETICS

12 February, 4 pm

Stephen Rice, "ICP27, a Herpes Simplex Virus Nuclear Protein that Regulates Viral Gene Expression and DNA Replication." G-116 Biological Sciences Centre.

## HUMAN ECOLOGY: ISSUES IN THE NORTH

16 February, 4 pm

Debbie Caseburg, "To Cure What Ails You: Health and Healing Among the Inuit." 231A Law Centre.

16 February, 4 pm

Jill Oakes, "Ulus in Action: Women in Northern Resource Management." 231A Law Centre.

## HISTORY, PHILOSOPHY AND RELIGIOUS STUDIES

12 February, 3 pm

Margaret Osler, Department of History, University of Calgary, "Divine Will and Mathematical Truth: Gassendi and Descartes on the Status of the Eternal Truths." 2-68 Tory Building.

## LIMNOLOGY AND FISHERIES DISCUSSION GROUP

18 February, 12:30 pm

Brenda Miskimmin, "The Use of Fish Toxicants as a Management Strategy for Sport-Fishing Lakes." M-149 Biological Sciences Centre.

## PETER JACYK CENTRE FOR UKRAINIAN HISTORICAL RESEARCH

18 February, 3 pm

John-Paul Himka, "New Theories of Nationalism: The Particular Case of the Galician Ukrainians." 352 Athabasca Hall.

## PHILOSOPHY

16 February, 3:30 pm

William Seager, University of Toronto, "Ground Truth and Virtual Reality: Hacking vs Van Fraassen." 4-29 Humanities Centre.

18 February, 3:30 pm

John Heintz, University of Calgary, "The Aesthetics of Horizontal Neckwear." 4-29 Humanities Centre.

## PHYSICS

12 February, 2 pm

Rick Kry, Imperial Oil Resources Ltd, Research and Technology Division, Calgary, "Physics and Heavy Oil Recovery." V-121 V-Wing.

## PLANT SCIENCE

16 February, 12:30 pm

Albert Hannig, "The Role of Ionic Currents in Plant Cytomorphogenesis." 1-06 Agriculture-Forestry Centre.

18 February, 12:30 pm

Joseph Nyachiro, "Genetic Regulation of Sprouting Resistance in Wheat." 1-06 Agriculture-Forestry Centre.

## SLAVIC AND EAST EUROPEAN STUDIES

12 February, 3 pm

Caryl Emerson, Princeton University, "Russian Literary Criticism and Mikhail Bakhtin—Readings of Dostoevsky that Bakhtin Couldn't Do: What Gets Lost in a Dialogic-Polyphonic Approach to the World." 4-29 Humanities Centre.

## SOCIOLOGY

18 February, 12:30 pm

Eric Higgs, "The Social Construction of Nature." 5-15 Tory Building.

## SOIL SCIENCE

18 February, 12:30 pm

Steve Pawluk, "An Introduction to the Identification of Faunal Micro-Morphological Features in Thin-Section." 2-36 Earth Sciences Building.

## WOMEN'S STUDIES

17 February, 4 pm

Elaine Murray, "Women and Development: The Role of the University and the Role of the Professor." Senate Chamber, Arts Building.

## ZOOLOGY

12 February, 3:30 pm

Kathryn Freemark, US Environmental Protection Agency, Corvallis, Oregon, "Landscape Structure and the Conservation of Bird Communities in Fragmented Forests." M-149 Biological Sciences Centre.

19 February, 3:30 pm

Malcolm Ramsay, Department of Biology, University of Saskatchewan, "Physiological Constraints on Vertebrate Life Histories: Examples from Bears, Birds and Humans." M-149 Biological Sciences Centre.

This symbol denotes environmentally related seminars/events. If you wish to have an environmentally related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

## RRSP contribution limits

Revenue Canada will not be providing all individual taxpayers with a separate statement of their RRSP room for 1992. In most cases, your 1992 RRSP contribution limit was provided on your 1991 Notice of Assessment or Reassessment from Revenue Canada which you received when you filed your return. Your limit was determined from information you provided on your 1991 tax return. However, if you had your 1991 return manually assessed (filed your return on the T1 short form), your pension Adjustment (PA) amended, or a Past Service Pension Adjustment (PSPA) certified subsequent to your 1991 Notice of Assessment, you should have received a separate statement from Revenue Canada.

If you are unable to locate your 1992 RRSP contribution limit, or if you want Revenue Canada to confirm it, you can contact the Tax Information Phone Service (TIPS) by calling 423-4993. This service can be used if you have a touch phone. If you do not have this type of phone, you can get the information by calling Revenue Canada's General Enquiries line. You will require your Social Insurance Number and date of birth when you call.

If you require additional information regarding the Pension Adjustment (PA) or Past Service Pension Adjustment (PSPA): PA - contact Payroll at 492-3207; PSPA - contact Pension and Benefits Administration at 492-4555.

## ACADEMIC

### DIRECTOR, OFFICE OF NATIVE STUDENT SERVICES

Applications are invited from qualified candidates for the above position. Appointment date is 1 July 1993 or earlier if possible.

The Office of Native Student Services is responsible for providing academic and support services to approximately 400 aboriginal students on campus. This number is expected to increase in light of the University's Aboriginal Student Policy which calls for all Faculties to increase their enrollment of aboriginal students. The office also provides liaison with Faculties and communities on aboriginal issues. A major mandate of the office is to administer the Transition Year Program which currently has an enrollment of 77 students.

**Responsibilities:** The Director reports to the Dean of Student Services and is responsible for the efficient and effective administration of the Office of Native Student Services. Currently there are five positions reporting to the Director.

Areas of responsibilities:

- administering the Office of Native Student Services
- overseeing implementation of the Aboriginal Student Policy
- representing the interests of the Department on Faculties and various committees
- providing liaison with external agencies
- overseeing the effective administration of the Transition Year Program and all student support services (tutoring, peer support, study skills, student ambassador program)

## POSITIONS



A major portion of the Director's time will be spent raising funds from external sources.

**Qualifications:** This position will be of interest to individuals with proven administrative expertise and experience in similar organization, preferably at a postsecondary/university level. The candidate must possess knowledge of aboriginal education and an understanding and empathy for students. Successful fundraising experience will be a definite asset. The candidate must have a minimum of an undergraduate degree with considerable related experience.

**Salary:** This is an Administrative Professional Officer position with a salary range from \$37,309 to \$55,969 per year.

**Deadline for applications:** 26 February 1993.

Please forward applications, curriculum vitae and names of three referees to: Dr PJ Miller, Dean, Student Services, 245 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

### DIRECTOR, PERSONAL AND ACADEMIC RESOURCES

Applications are invited for the position of Director, Personal and Academic Resources. The appointment will be a one-year term appointment, with the possibility of a reappointment to a permanent position.

The Director is the administrator in charge of Personal and Academic Resources, a Student Services unit which offers a range of support programs and services to the student body. Currently, these include:

- Student Counselling Services,
- Academic Support Centre, which houses Math Resources, Effective Writing Resources and the Study Skills Program,
- Student Advisory Services,

- Financial Aid Services, including the Bursary and Emergency Loan programs.

Applicants should possess a graduate degree, preferably a PhD, in one of the social sciences, and a research and/or experimental background in programs for improving student retention and academic success. Previous experience with Student Services at a postsecondary level is desirable.

Applications should be submitted to: Dr Peter J Miller, Dean of Student Services, 245 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8, by 28 February 1993. A detailed job description is available from the Office of the Dean of Student Services at 492-2968.

This is an Administrative Professional Officer position with a salary range of \$40,472 to \$60,704 per year.

### ADMINISTRATIVE PROFESSIONAL OFFICER, OFFICE OF ALUMNI AFFAIRS, MANAGER, BRANCHES AND CONSTITUENT ASSOCIATIONS

The Office of Alumni Affairs is responsible for planning, implementing and evaluating programs that enable alumni to connect with the University and for providing opportunities for them to play volunteer roles in support of the University's mission. The Manager, Branches and Constituent Associations, is responsible for an administrative program which currently has 30 geographically defined branches across Canada and around the world and 14 formally approved constituent associations which represent graduates from faculties, departments or clubs.

The position involves a great deal of work with volunteers. Leadership abilities, excel-

lent written and oral communication skills and strong interpersonal and organizational abilities are required.

The position reports to the Director of Alumni Affairs.

**Qualifications:** The Manager of Branches and Constituent Associations must hold at least a bachelor's degree from an accredited university and have a minimum of three years' experience in event planning, preparation and monitoring of budgets and marketing.

**Salary range:** The current salary range for the position is \$33,215 to \$49,823 per year (under review).

**Application procedures:** Applicants are asked to submit a résumé with names of three referees by 1 March 1993 to: Ms Susan Peirce, Director, Alumni Affairs, 430 Athabasca Hall, University of Alberta, Edmonton, Alberta T6G 2E8.

### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 5 February 1993. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin, the postings in PSSR and/or call the Job Information Line at 492-7205 (24 hours). Positions available as of 5 February 1993.

**The salary rate for the following position reflects adjustments in accordance with the new classification system and pay plan.**

CLERK TYPIST (Grade 5), Faculty of Agriculture and Forestry (\$1,891 - 2,343)

**The following positions retain salary rates in accordance with the previous classification system and pay plan.**

MEDICAL STENO (Trust), Surgery (\$1,779 - \$2,273)

TECHNICIAN I/TECHNOLOGIST I (Trust/Part-time/Hourly), Medicine, (\$12.16 - \$14.99/hour)

PROGRAMMER ANALYST II (Trust/Term to 1 February 1994), Computing Science (\$2,692 - \$3,497)

## ADS

### ACCOMMODATIONS AVAILABLE

**VICTORIA PROPERTIES** - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

**SHARE** - Idlewylde home with two other people. \$270/month plus utilities. Janet/Mike, Western Relocation Services, 434-4629.

**RENT** - Lansdowne, furnished. Short term, 1 February - 31 March. \$800/month plus utilities. Mike/Janet, Western Relocation, 434-4629.

**RENT** - Riverbend, Falconer. Exquisite two storey, four bedrooms, many extras. \$1,600/month, immediate. Mike/Janet, Western Relocation Services, 434-4629.

**SALE** - Executive, hillside bungalow, old Riverbend. Totally redone, stunning contemporary decor, 4,100'. Sherry Mailo, Re/Max, 438-7000.

**SALE** - Belgravia bungalow, 1,300', totally redone. Interior, exterior. Excellent curb appeal and location. Sherry Mailo, Re/Max, 438-7000.

**SALE** - Belgravia bungalow, two bedrooms, vinyl siding, new oak kitchen. \$117,500. Sherry Mailo, Re/Max, 438-7000.

**SALE** - Riverbend, city view, 1 1/2 storey. Newly constructed Whitemud Hills. Bright, modern. Sherry Mailo, Re/Max, 438-7000.

**SALE** - Exceptional Belgravia bungalow, two bedrooms, bright, modern kitchen, newer basement development, south yard, deck. Great location. \$154,900. Ed Lastiwka, Royal LePage Realty, 446-3800, 437-7480.

**RENT** - Two storey, three bedroom house with den on main floor in north Windsor Park, two blocks west of the University. No pets, nonsmokers preferred. Available 1 February. 433-0646.

**RENT** - City couple, rent rooms or three bedroom house 1 April - 1 November. Situated 84 Avenue between Bonnie Doon Mall and Millcreek. Quiet, sunny backyard. Furnished/unfurnished, references required. 468-4053.

**SALE** - Just listed, solid bungalow near Southgate, three plus two bedrooms. Double garage, south yard, bus to University, \$136,900. Raymond Cheng, Royal LePage, 438-4700.

**RENT** - Sabbatical, exquisite, four bedroom bungalow. Incredible basement, furnished, west end, August - August. \$950. 492-1272, 444-6729.

**RENT** - May-July, fully furnished three bedroom house, south Garneau. \$1,200/month. 438-7886, 492-5731.

**RENT** - Beautiful Glenora bungalow, minutes from University. Two bedrooms main plus one bedroom down, furnished. 1 July 1993 - 30 June 1994. \$1,100/month. 447-5585.

**SALE** - Garneau, upgraded 2 1/2 storey. Four bedrooms, two studies, \$185,000. 433-2360.

**MICHENER PARK** - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

**SALE** - Executive bungalow on country club golf course. Prime lot, exquisite inside and out. Two bedrooms up, three down. A must see. Asking \$409,000. Call Judy Packer, Spencer Realty, 486-2847.

**SALE** - Whitemud Way, 4612 151 Street, Riverbend. Gorgeous, 1,800 square foot townhome in mint condition. Loft, oak, jacuzzi, fireplace, \$174,900. Ten minutes to campus. Hugh Moncrieff, Re/Max Real Estate, 488-4000.

**SALE** - Condo/townhome, Hycourt, #16, 11016 86 Avenue. Three bedrooms, underground parking, fireplace. Large assumable mortgage, list \$134,900. Hugh Moncrieff, Re/Max Real Estate, 488-4000.

**RENT** - 1,400', two bedroom, two bathroom highrise condominium. 103 Street 99 Avenue, breathtaking river valley view. Six appliances, underground parking, pool, billiards, exercise rooms. Close to University. \$1,050/month. 433-4676.

**RENT** - University area. Bright, spacious one bedroom condo, seventh floor. Balcony, pool, security, 1/2 block Safeway, parking, utilities included. \$625/month. 434-0432.

### ACCOMMODATIONS WANTED

**MATURE, UNIVERSITY EMPLOYEE** available to housesit. Previous experience. Phone Joanna, 433-8668 or 492-6365.

**LOOKING FOR** single, nonsmoking, accommodation come spring. Sabbatical housesitting a specialty. 5724 or PO Box 45053 Lansdowne Postal Outlet, T5H 5Y1.

**PROFESSOR ON SABBATICAL** September 1993 - April 1994, looking for furnished accommodation close to campus. Contact: K Leaman, 746 Hanson Street, Fredericton, New Brunswick E3B 3Z9. (506) 455-7215.

**RESPONSIBLE PROFESSIONAL WOMAN** - Nonsmoker, teaching at University needs furnished accommodation for April/May/June 1993. Have two bedroom, two bathroom Victoria condo near ocean. Would home exchange. Call (604) 385-6000.

**VISITING PROFESSOR AND FAMILY** require accommodation from 1 July 1993 to 30 June 1994. Phone (306) 585-4096 or (306) 586-1351 after 6 pm.

### GOODS FOR SALE

**PIANO**, Schnabel, 12 years old. \$3,300 obo. 454-6987 after 5:30.

### SERVICES

**DONNIC WORD PROCESSING** - Since 1978, specializing in theses, manuscripts, etc. 453-2769.

**COMPUTERIZED LITERATURE SEARCHING** - Expert information retrieval by experienced scientist. All areas. Requests accepted by phone. No red tape! Competitive rates. Satisfaction guaranteed. JL Citation Services, 487-8652.

**DAVID RICHARDS CARPENTRY** - Certified journeyman NAIT. Complete interior/exterior residential and commercial renovations including plumbing/electrical. References available. 436-6363.

BACK BASICS REMEDIAL THERAPY - Supplementary health care coverage. 436-8059.

PROFESSIONAL SEAMSTRESS - Specializing in bridal wear, dresses, slacks, suits, blouses made to order. Available in irregular sizes. General alterations. "Special" jeans hemmed, \$1.99. Contact Phil, 469-6292.

FREE AIR TICKETS - Redeem your frequent flyer certificates with us. Call Newwest Travel, 432-7446. 8625 112 Street.

MARK EHRMAN CABINET SERVICES - Custom designs or made to match existing. References available. 463-0889.

PRIORITY PET CARE - Reliable petsitting and housesitting. Snow removal, plant care and mail service. Bonded and insured. 448-2751.

TECH VERBATIM - Word processing, WP 5.1, Words 5.0, medical terminology, laserprint, campus location. Donna, 440-3714 evenings, weekends.

UNIVERSITY MEDIATION SERVICES - 492-9203. Helping people in conflict find mutually acceptable solutions. Confidential. Free.

HEARTWOOD RENOVATIONS - Complete interior renovations. Specializing in basements, bathrooms, kitchens. Count on us for all your home repairs. No job too small. References available. Phone Dennis Ellerman, 466-5941.

PRO TYPING - Reports, résumés, theses, spreadsheets, WP5.1. Laser printing. 471-6097.

MARG'S WORD PERFECT 5.1 SERVICES. Type résumés, letters, memos, theses, manuscripts. Reasonable rates. Phone 435-3488.

US INCOME TAX SERVICES - By experienced professionals. 1040's, nonresident returns, retirement and investment planning, estate tax. Lorraine Kellogg, CMA, 450-1783, Zsolt Feketekuty, CA, 421-4784.

#### MISCELLANEOUS

Filipino lady, mature, good references, seeks live-out nanny job, 447-2596.

## CAMPUS TOWER SUITE HOTEL

In the heart of the University

of Alberta Campus across from the University Hospital, a warm fire is burning. Campus Tower's contemporary atmosphere provides quiet ambience on a daily, weekly, or monthly basis.

Campus Tower is definitely the only place to stay in the University area!

**Amenities** • bachelor, one and two bedroom suites • fully equipped kitchens • exercise room • meeting rooms • restaurant • complimentary parking • weekend shuttle service to West Edmonton Mall

#### University Rates

**\$62.00** per day on a daily basis  
**\$54.00** per day on a weekly basis  
**\$50.00** per day on monthly basis

for a one bedroom suite  
rates are subject to change  
Reservations  
Phone (403) 439-6060



**CAMPUS TOWER**  
11145 - 87 Avenue  
Edmonton, Alberta  
T6G 0Y1



**Fri., February 12 at 8 pm**  
Visiting Artist Recital:  
Antonin Kubalek, pianist

**Mon., February 15 at 8 pm**  
Faculty Recital: Norman  
Nelson, violin and Stéphane  
Lemelin, piano

In Convocation Hall, Arts Bldg.

Info: Dept. of Music: 492-3263.

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We're Paying Attention



## Springhill nursery school

- learn through play environment
- talented, college-trained teacher
- excellent facilities
- separate classes for ages 2, 3, and 4
- a parent-cooperative

#### Open House:

Friday, **March 19, 93**  
2:30-6:00 pm

Main Floor Centre, **Garneau School**, 10925 - 87 Ave.  
For more information call **Flora** at 439-5353

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(T2202A's)

The T2202A's for the 1992 calendar year will be mailed at the end of February to all eligible students. Students should receive these forms in early March.

Students whose mailing addresses are not up-to-date should contact the Office of the Registrar immediately and correct their mailing addresses.

Office of the Registrar

## Recorder Workshop



Tuesday February 16, 1993  
7:30 - 9:30 p.m.  
Garneau United Church  
11148 - 84 Ave., Edmonton  
Admission \$7.50

Call for information  
Herb Taylor: 437-3311

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Welcome & Introductions  
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Conducted Ensemble  
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Refreshments



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